

Eulerian Ice Motion from Envisat

Description - Eulerian Ice Motion Product

This product contains the results of ice motion derived from a pair of image frames.

The ice motion data are output in HDF format.

Eulerian Ice Motion: Metadata Record

Field Name	Description
<i>PID</i>	Envisat product identifier, (S)yymmddhhmns_c(T)yymmddhhmns_c_EP.hdf where (S)yymmddhhmns_c: image A start time, year,month,day, hour,minute and second. (T)yymmddhhmns_c: image B start time, year,month,day, hour,minute and second.
<i>PROD_DESCRIPTION</i>	Eulerian Ice Motion.
<i>DATA_REGION</i>	Region of the ice motion data, e.g. Central Arctic, Ross.
<i>SW_VERSION</i>	S/W version used to create this product.
<i>CREATE_YEAR</i> <i>CREATE_TIME</i>	The year/time this product was created.
<i>TRACKING_REQ_ID</i>	Request ID of ice motion tracking.
<i>APID</i>	Image A product identifier.
<i>BPID</i>	Image B product identifier.
<i>ACENTYEAR</i> <i>ACENTTIME</i>	Scene center year/time of image A.
<i>A_TL_LAT, A_TL_LON</i> <i>A_TR_LAT, A_TR_LON</i> <i>A_BR_LAT, A_BR_LON</i> <i>A_BL_LAT, A_BL_LON</i>	The corner point locations of image A (deg).
<i>BCENTYEAR</i> <i>BCENTTIME</i>	Scene center year/time of image B.
<i>B_TL_LAT, B_TL_LON</i> <i>B_TR_LAT, B_TR_LON</i> <i>B_BR_LAT, B_BR_LON</i> <i>B_BL_LAT, B_BL_LON</i>	The corner point locations of image B (deg).
<i>D_TIME</i>	Time separation between images (day).
<i>GRID_W_OBS</i>	Number of grid elements with observations.
<i>PIXEL_SP</i>	Image pixel spacing (m).
<i>GRIDSPACE</i>	Grid element spacing (km).
<i>AVG_DISP_X,</i> <i>AVG_DISP_Y</i>	Average displacement in x and y (km).

Eulerian Ice motion: Motion Data

Field	Description
<i>A_GRID_LAT,</i> <i>A_GRID_LON</i>	Grid point location on image A (deg).
<i>B_GRID_LAT,</i> <i>B_GRID_LON</i>	Grid point location on image B(deg).
<i>DISP_X,</i> <i>DISP_Y</i>	Displacement of grid point (km).
<i>Q_FLAG</i>	Quality flag.

Qflag Codes

The sequence of modifications to the location of a gridpoint during an inspection session are recorded in the *Qflag* codes:

(Notes: During an inspection session, the operator has the option to define an area to send to ice motion tracking procedure (sub-tracker) for refinement of the grid point positions.)

Code	Description
	1 : Unchanged with initial tracker quality 1 [tq1] – good quality 2 : Unchanged with initial tracker quality 2 [tq2] 3 : Unchanged with initial tracker quality 3 [tq3] 4 : Unchanged with initial tracker quality 4 [tq4] 5 : Unchanged with initial tracker quality 5 [tq5] 6 : Unchanged with initial tracker quality 6 [tq6] – acceptable quality 101-106 : Manipulated by operator manually or using a subtracker (100 is added to the code produced by the automatic tracker).